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(54) Title: METHOD FOR IDENTIFYING COMPOUNDS THAT AFFECT EXPRESSION OF TRYPTOPHAN HYDROXYLASE ISOFORM 2

(57) Abstract: A method for identifying analytes which directly or indirectly affect tryptophan hydroxylase isoform 2 (TPH2) expression is described. The method enables glucocorticoid receptor modulators and  $\beta$ -hydroxysteroid dehydrogenase type 1 ( $\beta$ HSD1) inhibitors to be screened for central nervous system penetrance and activity by determining their ability to regulate expression of TPH2. The method is particularly useful for identifying analytes which suppress glucocorticoid disruption of central serotonergic neurotransmission in the brain.



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